

Product datasheet for **MC229328**

Srgap1 (NM_001242411) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Srgap1 (NM_001242411) Mouse Untagged Clone
Tag: Tag Free
Symbol: Srgap1
Synonyms: 4930572H05Rik; Arhgap13
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229328 representing NM_001242411
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACCCGAGCAGATTCAAGAAGGACAAAGAGATCATAGCCGAGTATGAAAGTCAAGTCAAAGAAA
 TCCGAGCCAGCTGGTAGAACAAACAAAAATGCCTGGAGCAGCAGACAGAGATGCGAGTTCAGCTGCTCCA
 GGACCTACAAGATTTCTCCGAAAAAAGCCGAAATTGAGACGGAATATTCTCGGAACCTGGAGAAGCTG
 GCAGAAAGGTTTCATGGCCAAAACAAGAAGCACTAAGGACCATCAACAGTTCAAGAAAAGACCAAAACCTGT
 TGTCTCCAGTGAAGTCTGGTATTTGCTCCTGAACCAAGTGAAGAGAGAGAGCAAAGACCCAGCCACTTT
 GAGTGACATCTATCTGAACAATGTCATCATGCGGTTTCATGCAGATAAGCGAGGACTCCACCCGGATGTTT
 AAAAAGAGCAAAGAGATTGCGTTCAGCTTCACGAGGACCTCATGAAGGTTCTGAATGAGCTCTACACGG
 TGATGAAAACCTACCACATGTACCACTCAGAGAGCATCAGTGCAGAGAGTAAGCTGAAAGAAGCCGAGAA
 ACAAGAGGAGAAGCAGATTGGGAGGTCGGCGACCCAGTCTCCACATTAGGCTGGAAGAGAGGCATCAG
 AGGCGGAGCTCTGTGAAGAAAAATGAAAAAATGAAGGAAAAGAGACAAGCAAAATATTGAAAAAATAGC
 TGAATCGATCAAAGCCCGCAACGAGTATCTCCTAACACTTGAAGCAACCAACGCCTCCGTGTTCAAGTA
 TTACATCCATGATCTTTACAGCTTAATAGACTGCTGTGATCTCGGCTACCATGCAAGTCTGAACAGAGCC
 CTCAGAACGTACCTCTCGGCGGAGTACAACCTTGAACCTCCAGACACGAAGGCTTAGACATCATTGAAA
 ACGCTGTGGACAATTTAGAGCCAGGAGTGACAAGCAGAGGTTTCATGGAGATGTACCCTGCGGCATTCTG
 CCCGCCAATGAAATTCGAGTTTCAGTCTCACATGGGTGATGAGGTGTGTCAGGTGAGCGCCAGCAGCCC
 GTCCAGGCGGAGCTCATGCTCAGGAACCAACAGCTGCAGTCCCGACTGGCCACACTCAAGATCGAGAGCG
 AGGAGGTCAAGAAAACGACAGAAGCCACCCTCCAGACGATCCAAGATATGGTCACCATTGAGGACTATGA
 TGTGTCTGAGTGTTCAGCACAGCCGATCCACAGAGTCTGTGAAGTCCACTGTGTGAGAAACCTACCTG
 AGTAAACCCAGCATCGCCAAGAGACGAGCAACCAGCAAGAAACGAGCAGTTCTACTTCATGAACTTC
 GAGAGTTCTGGAAGGCAGTAACCTCATCAAAAGCTGCAGGCTAAGCATGACTTCTGTCAGAGGACTCT
 TGGAGAAGGCCATAGAGCTGAATATATGACTACAAGCCGGGGACGAAGGAACTCTCACGCAAGACATCAG
 GACTCAGGCCAGGTTATCCCTCTCATTGTGAAAGCTGCATCCGATTCATTAATCTCTATGGCCTTCAGC



ACCAGGGGATTTTCAGAGTGTCTGGCTCCCAGGTGGAAGTGAACGATATCAAGAATTCTTCGAGAGAGG
 TGAGAACCCTCTGTCCGATGAGCAGAGCAACCACGATATCAACTCGGTGGCCGGCGTGTGAAGCTGTAC
 TTCGAGGGCTGGAAAACCCCTCTTCTAAGGAAAGGTTTACTGACCTGATTTCTGTATCAGAAATAG
 ATAACCTCTATGAGAGGGCGCTCCACATCCGAAACTCCTCTGACCTTGCCAGGTCCGTCCTTATAGT
 GATGAGGTACCTGTTTGCCTTCTCAATCACCTCTCCAGTACAGTGACGAGAACATGATGGACCCTTAC
 AATCTGGCATTGTCTCGGCCAACACTGATGCCGTTCCAGAGATACAGGACCAAGTGTCTTGCAGG
 CACACGTGAACGAGATTGTGAAGACCATCATCCATCACGAGACTATTTCCAGATGCTAAAGAAT
 GGACGGCCCGTGTATGAGAAATGCATGGCCGGAGGCGACTACTGCGACAGCCCTACAGTGAGCATGGT
 ACATTGGAGGAGGTGGACCAAGACGCGCCGACAGAGCCACACCAAGTGAAGACGAGTGTGAGCCCATCG
 AAGCCATAGCCAAGTTTGACTACGTGCGGCGGTGAGTACAGAGCTGTCTTCAAGAAGGGTGCATCCCT
 GCTGCTGTATCACCGAGCCTCCGAGGATTGGTGGGAAGGCAGACACAACGGGATCGATGGCCTTGTGCT
 CATCAGTACATAGTTGTGCAAGATATGGACGATACATTTTCAGACACGCTGAGCCAAAAGCCGACAGCG
 AAGCCAGCAGCGGCCAGTCACTGAAGACAAGTCTCATCCAAGGACATGAACTCCCGACTGACCGCCA
 TTCTGATAGTATTTAGCCAGACAAAGAAAGAGAGAGCCACCCCTCCGGGAAGACGTCCCGGCAGG
 ACCAGCGATGGCCATTGTCCCCTGCATCCCCCGCATGCTGTCTAACTCCTCAATTGATCTGGGATCCC
 CAAACCTAGCCAGTACCCCAAGGGCCTGTTGCAGAACCCTGGCCTCAATAATGACAGTCCCTGAGAGGCG
 GCGCCGGCCGGCCACGGCAGCCTGACCAATATCAGCCGGCATGACTCCCTCAAGAAGATCGACAGCCCT
 CCTATCCGGAGGTCCACATCATCAGGGCAGTACACAGGCTTCAATGACCAAGCCACTGGACCCCGAGA
 CGATTGCTCAGGATATTGAGGAGACCATGAACACTGCTTTGAACGAACTCCGTGAACCTGAGAGGCGAG
 CACAGTGAAGCACGCCCCGATGTCGTGCTAGACACTTTGGAGCAAGTGAAGAATCGCCCAACCCCTGCG
 ACTTCCACAGAATCACTCAGCCACTGCACAATGTCGCCCTCAGGGGCTCAGAGCCACAGATTGCGCCGA
 GCACCAGTCTCCAGCGAGACAATGAGTACTTTCAAGCCTATGGTGGCGCCCGGATGGGCGTCCAGCT
 GAAGCCCCAGCCCTTAGGCCAAAGCCTGCTGTTCTTCCAAAAACAAACCCTACGATGGGACCTGCCGA
 CCTTCCAGGGTCCCACAGACAAGTCTTGACGATGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001242411
- Insert Size:** 3189 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
 1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001242411.1](#), [NP_001229340.1](#)

RefSeq Size: 7718 bp

RefSeq ORF: 3189 bp

Locus ID: 117600

UniProt ID: [Q91Z69](#)

Cytogenetics: 10 D2

Gene Summary: GTPase-activating protein for RhoA and Cdc42 small GTPases. Together with CDC42 seems to be involved in the pathway mediating the repulsive signaling of Robo and Slit proteins in neuronal migration. SLIT2, probably through interaction with ROBO1, increases the interaction of SRGAP1 with ROBO1 and inactivates CDC42 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate coding exon, that causes a frameshift; however, it contains an alternate downstream exon that restores the reading frame. The resulting isoform (2) has a different internal segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.